

S20LC40UT

Fast Recovery Diodes
400V, 20A

Feature

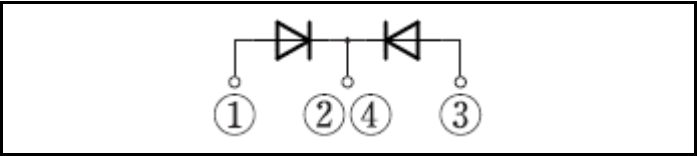
- High Recovery Speed
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): MTO-3PT
Package (JEDEC Code): TO-247AD



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 150	°C
Junction temperature	Tj		150	°C
Repetitive peak reverse voltage	VRRM		400	V
Average forward current	IF(AV)	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, Tc=123°C	20	A
Surge forward current	IFSM	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	130	A
Surge forward current	IFSM1	tp=1ms, Non-repetitive, Tj=25°C	230	A
Mounting torque	TOR	(Recommended torque : 0.5N·m)	0.8	N·m

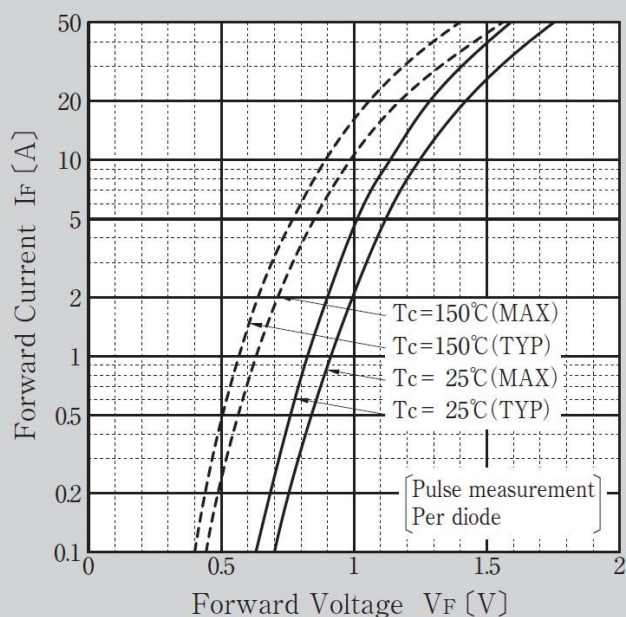
※ :See the original Specifications

Electrical Characteristics (unless otherwise specified : Tc=25°C)

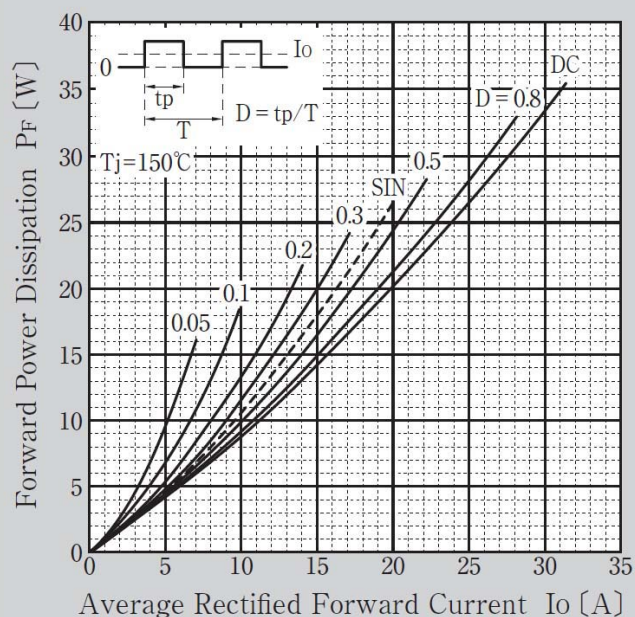
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	IF=10A, Pulse measurement, Per diode		1.07	1.25	V
Reverse current	I_R	VR=400V, Pulse measurement, Per diode			10	μA
Reverse recovery time	trr	IF=0.5A, IR=1A, 0.25IR, Per Diode			30	ns
Total capacitance	Ct	f=1MHz, VR=10V, Per diode		65		pF
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			1	°C/W

※ :See the original Specifications

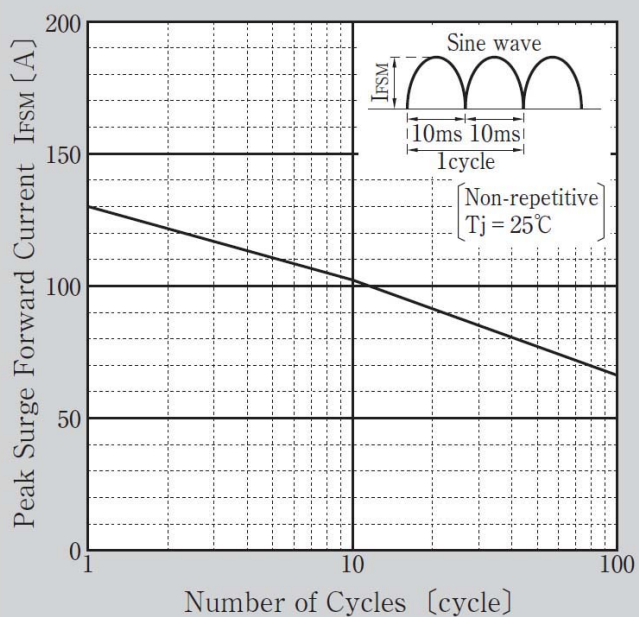
Forward Voltage



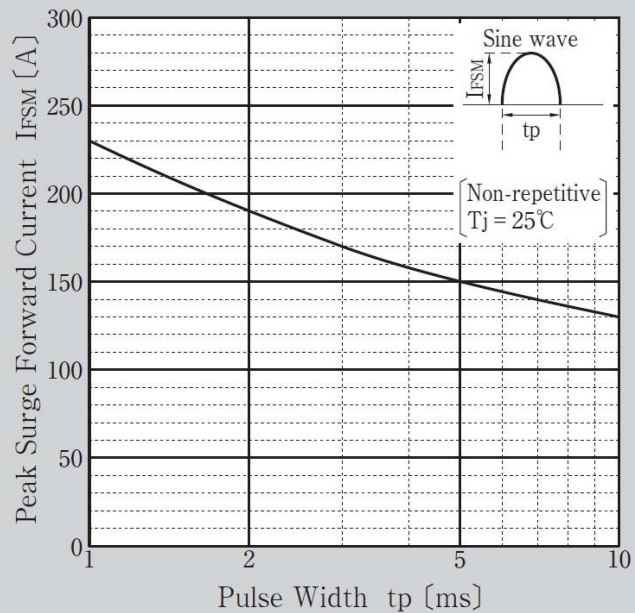
Forward Power Dissipation

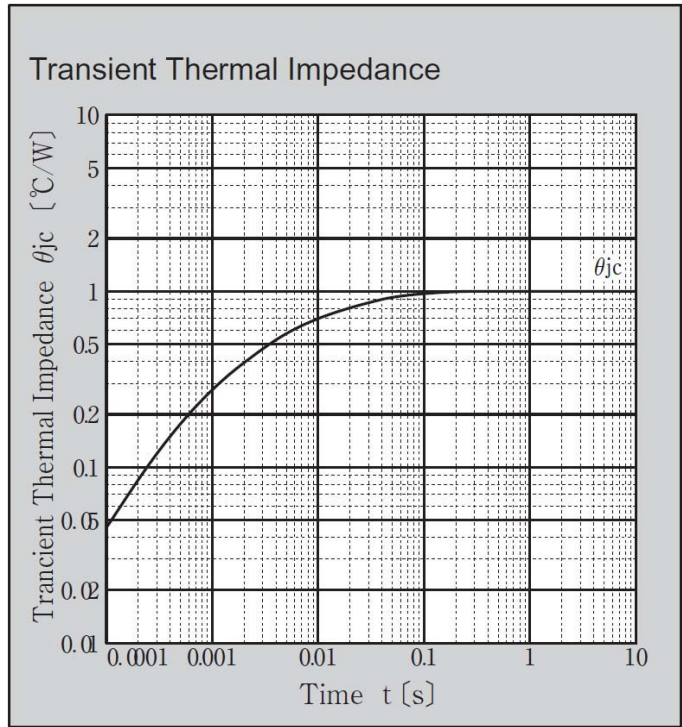
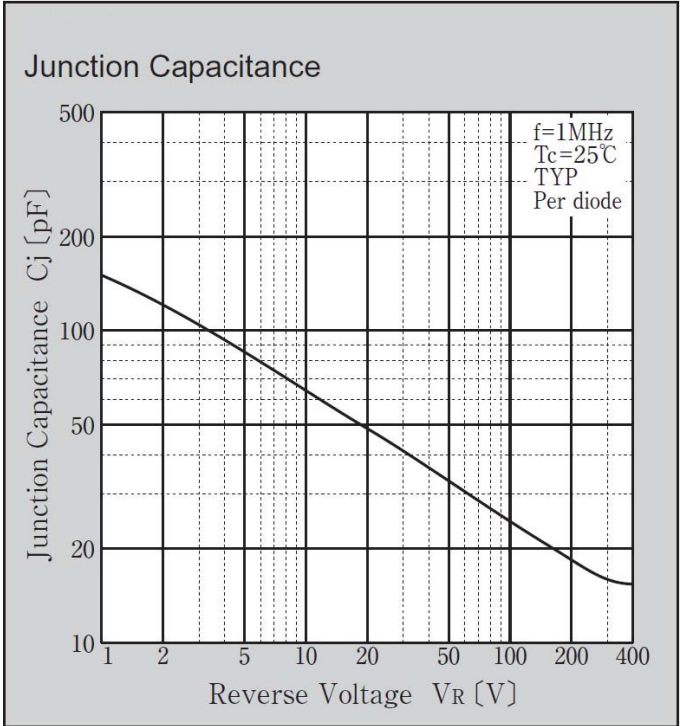
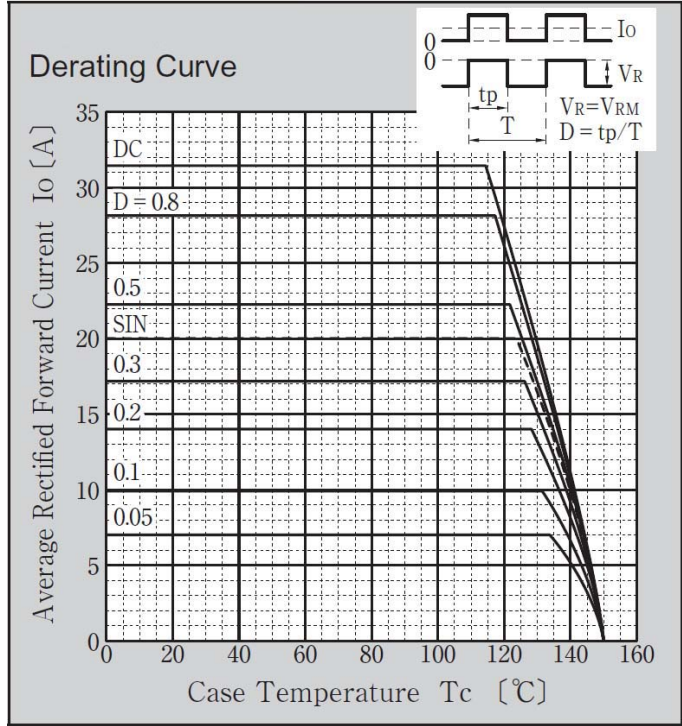


Peak Surge Forward Current Capability



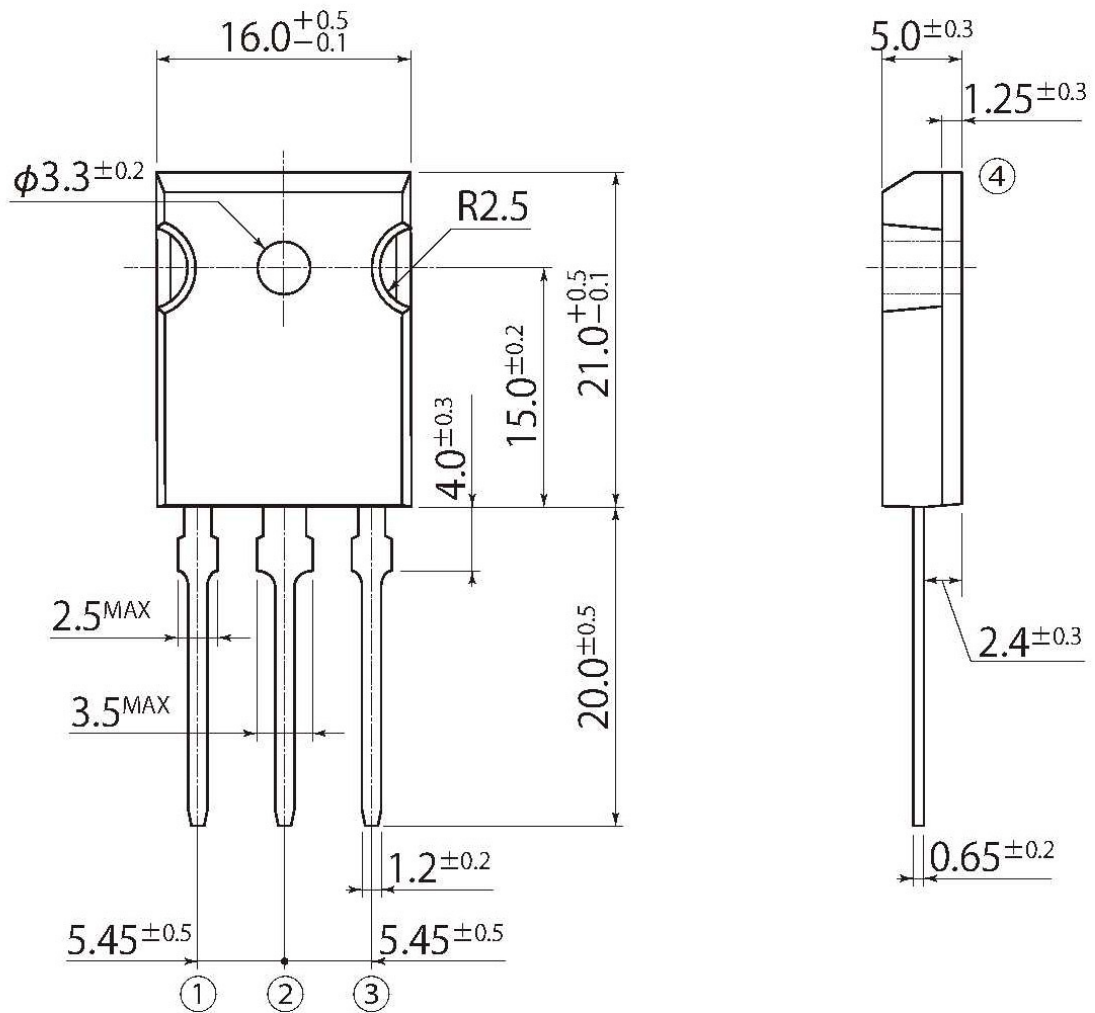
Peak Surge Forward Current Capability





K5

JEDEC Code	TO-247AD
JEITA Code	—
House Name	MTO-3PT(3pin)



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